

# SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> POLYNUCLEOTIDE ENCODING A NOVEL HUMAN SERPIN SECRETED FROM LYMPHOID CELLS, LSI-01

<130> D0051.NP

<150> US 60/248,434

<151> 2000-11-14

<150> US 60/257,610

<151> 2000-12-21

<150> US 60/282,745

<151> 2001-04-10

<160> 46

<170> PatentIn version 3.0

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Met Gln Gly Gln Gly Arg Arg Arg Gly Thr Cys Lys Asp Ile  
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ttt tgt tcc aaa atg gca tct tac ctt tat gga gta ctc ttt gct gtt 157  
Phe Cys Ser Lys Met Ala Ser Tyr Leu Tyr Gly Val Leu Phe Ala Val  
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Gly Leu Cys Ala Pro Ile Tyr Cys Val Ser Pro Ala Asn Ala Pro Ser  
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gca tac ccc cgc cct tcc tcc aca aag agc acc cct gcc tca cag gtg 253  
Ala Tyr Pro Arg Pro Ser Ser Thr Lys Ser Thr Pro Ala Ser Gln Val  
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Tyr Ser Leu Asn Thr Asp Phe Ala Phe Arg Leu Tyr Arg Arg Leu Val  
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ttg gag acc ccg agt cag aac atc ttc ttc tcc cct gtg agt gtc tcc 349  
Leu Glu Thr Pro Ser Gln Asn Ile Phe Phe Ser Pro Val Ser Val Ser  
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act tcc ctg gcc atg ctc tcc ctt ggg gcc cac tca gtc acc aag acc	397
Thr Ser Leu Ala Met Leu Ser Leu Gly Ala His Ser Val Thr Lys Thr	
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cag att ctc cag ggc ctg ggc ttc aac ctc aca cac aca cca gag tct	445
Gln Ile Leu Gln Gly Leu Gly Phe Asn Leu Thr His Thr Pro Glu Ser	
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gcc atc cac cag ggc ttc cag cac ctg gtt cac tca ctg act gtt ccc	493
Ala Ile His Gln Gly Phe Gln His Leu Val His Ser Leu Thr Val Pro	
130 135 140	
agc aaa gac ctg acc ttg aag atg gga agt gcc ctc ttc gtc aag aag	541
Ser Lys Asp Leu Thr Leu Lys Met Gly Ser Ala Leu Phe Val Lys Lys	
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Glu Leu Gln Leu Gln Ala Asn Phe Leu Gly Asn Val Lys Arg Leu Tyr	
160 165 170	
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Glu Ala Glu Val Phe Ser Thr Asp Phe Ser Asn Pro Ser Ile Ala Gln	
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gcg agg atc aac agc cat gtg aaa aag aag acc caa ggg aag gtt gta	685
Ala Arg Ile Asn Ser His Val Lys Lys Lys Thr Gln Gly Lys Val Val	
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gac ata atc caa ggc ctt gac ctt ctg acg gcc atg gtt ctg gtg aat	733
Asp Ile Ile Gln Gly Leu Asp Leu Leu Thr Ala Met Val Leu Val Asn	
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cac att ttc ttt aaa gcc aag tgg gag aag ccc ttt cac ctt gaa tat	781
His Ile Phe Phe Lys Ala Lys Trp Glu Lys Pro Phe His Leu Glu Tyr	
225 230 235	
aca aga aag aac ttc cca ttc ctg gtg ggc gag cag gtc act gtg caa	829
Thr Arg Lys Asn Phe Pro Phe Leu Val Gly Glu Gln Val Thr Val Gln	
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Val Pro Met Met His Gln Lys Glu Gln Phe Ala Phe Gly Val Asp Thr	
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Glu Leu Asn Cys Phe Val Leu Gln Met Asp Tyr Lys Gly Asp Ala Val	
275 280 285	
gcc ttc ttt gtc ctc cct agc aag ggc aag atg agg caa ctg gaa cag	973
Ala Phe Phe Val Leu Pro Ser Lys Gly Lys Met Arg Gln Leu Glu Gln	
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gcc ttg tca gcc aga aca ctg ata aag tgg agc cac tca ctc cag aaa	1021
Ala Leu Ser Ala Arg Thr Leu Ile Lys Trp Ser His Ser Leu Gln Lys	
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agg tgg ata gag gtg ttc atc ccc aga ttt tcc att tct gcc tcc tac      1069
Arg Trp Ile Glu Val Phe Ile Pro Arg Phe Ser Ile Ser Ala Ser Tyr
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aat ctg gaa acc atc ctc ccg aag atg ggc atc caa aat gcc ttt gac      1117
Asn Leu Glu Thr Ile Leu Pro Lys Met Gly Ile Gln Asn Ala Phe Asp
    335                      340                      345                      350

aaa aat gct gat ttt tct gga att gca aag aga gac tcc ctg cag gtt      1165
Lys Asn Ala Asp Phe Ser Gly Ile Ala Lys Arg Asp Ser Leu Gln Val
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tct aaa gca acc cac aag gct gtg ctg gat gtc agt gaa gag ggc act      1213
Ser Lys Ala Thr His Lys Ala Val Leu Asp Val Ser Glu Glu Gly Thr
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gag gcc aca gca gct acc acc acc aag ttc ata gtc cga tcg aag gat      1261
Glu Ala Thr Ala Ala Thr Thr Thr Lys Phe Ile Val Arg Ser Lys Asp
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Gly Pro Ser Tyr Phe Thr Val Ser Phe Asn Arg Thr Phe Leu Met Met
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att aca aat aaa gcc aca gac ggt att ctc ttt cta ggg aaa gtg gaa      1357
Ile Thr Asn Lys Ala Thr Asp Gly Ile Leu Phe Leu Gly Lys Val Glu
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Asn Pro Thr Lys Ser
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Ser Lys Met Ala Ser Tyr Leu Tyr Gly Val Leu Phe Ala Val Gly Leu

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25

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Cys Ala Pro Ile Tyr Cys Val Ser Pro Ala Asn Ala Pro Ser Ala Tyr  
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Pro Arg Pro Ser Ser Thr Lys Ser Thr Pro Ala Ser Gln Val Tyr Ser  
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Leu Asn Thr Asp Phe Ala Phe Arg Leu Tyr Arg Arg Leu Val Leu Glu  
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Thr Pro Ser Gln Asn Ile Phe Phe Ser Pro Val Ser Val Ser Thr Ser  
 85 90 95

Leu Ala Met Leu Ser Leu Gly Ala His Ser Val Thr Lys Thr Gln Ile  
 100 105 110

Leu Gln Gly Leu Gly Phe Asn Leu Thr His Thr Pro Glu Ser Ala Ile  
 115 120 125

His Gln Gly Phe Gln His Leu Val His Ser Leu Thr Val Pro Ser Lys  
 130 135 140

Asp Leu Thr Leu Lys Met Gly Ser Ala Leu Phe Val Lys Lys Glu Leu  
 145 150 155 160

Gln Leu Gln Ala Asn Phe Leu Gly Asn Val Lys Arg Leu Tyr Glu Ala  
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Glu Val Phe Ser Thr Asp Phe Ser Asn Pro Ser Ile Ala Gln Ala Arg  
 180 185 190

Ile Asn Ser His Val Lys Lys Lys Thr Gln Gly Lys Val Val Asp Ile  
 195 200 205

Ile Gln Gly Leu Asp Leu Leu Thr Ala Met Val Leu Val Asn His Ile  
 210 215 220

Phe Phe Lys Ala Lys Trp Glu Lys Pro Phe His Leu Glu Tyr Thr Arg  
 225 230 235 240

Lys Asn Phe Pro Phe Leu Val Gly Glu Gln Val Thr Val Gln Val Pro  
 245 250 255

Met Met His Gln Lys Glu Gln Phe Ala Phe Gly Val Asp Thr Glu Leu  
260 265 270

Asn Cys Phe Val Leu Gln Met Asp Tyr Lys Gly Asp Ala Val Ala Phe  
275 280 285

Phe Val Leu Pro Ser Lys Gly Lys Met Arg Gln Leu Glu Gln Ala Leu  
290 295 300

Ser Ala Arg Thr Leu Ile Lys Trp Ser His Ser Leu Gln Lys Arg Trp  
305 310 315 320

Ile Glu Val Phe Ile Pro Arg Phe Ser Ile Ser Ala Ser Tyr Asn Leu  
325 330 335

Glu Thr Ile Leu Pro Lys Met Gly Ile Gln Asn Ala Phe Asp Lys Asn  
340 345 350

Ala Asp Phe Ser Gly Ile Ala Lys Arg Asp Ser Leu Gln Val Ser Lys  
355 360 365

Ala Thr His Lys Ala Val Leu Asp Val Ser Glu Glu Gly Thr Glu Ala  
370 375 380

Thr Ala Ala Thr Thr Thr Lys Phe Ile Val Arg Ser Lys Asp Gly Pro  
385 390 395 400

Ser Tyr Phe Thr Val Ser Phe Asn Arg Thr Phe Leu Met Met Ile Thr  
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Thr Lys Ser  
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Asn	Leu	Thr	Gln	Glu	Asn	Gln	Asp	Arg	Gly	Thr	His	Val	Asp	Leu	Gly	35	40	45	
Leu	Ala	Ser	Ala	Asn	Val	Asp	Phe	Ala	Phe	Ser	Leu	Tyr	Lys	Gln	Leu	50	55	60	
Val	Leu	Lys	Ala	Pro	Asp	Lys	Asn	Val	Ile	Phe	Ser	Pro	Leu	Ser	Ile	65	70	75	80
Ser	Thr	Ala	Leu	Ala	Phe	Leu	Ser	Leu	Gly	Ala	His	Asn	Thr	Thr	Leu	85	90	95	
Thr	Glu	Ile	Leu	Lys	Gly	Leu	Lys	Phe	Asn	Leu	Thr	Glu	Thr	Ser	Glu	100	105	110	
Ala	Glu	Ile	His	Gln	Ser	Phe	Gln	His	Leu	Leu	Arg	Thr	Leu	Asn	Gln	115	120	125	
Ser	Ser	Asp	Glu	Leu	Gln	Leu	Ser	Met	Gly	Asn	Ala	Met	Phe	Val	Lys	130	135	140	
Glu	Gln	Leu	Ser	Leu	Leu	Asp	Arg	Phe	Thr	Glu	Asp	Ala	Lys	Arg	Leu	145	150	155	160
Tyr	Gly	Ser	Glu	Ala	Phe	Ala	Thr	Asp	Phe	Gln	Asp	Ser	Ala	Ala	Ala	165	170	175	
Lys	Lys	Leu	Ile	Asn	Asp	Tyr	Val	Lys	Asn	Gly	Thr	Arg	Gly	Lys	Ile	180	185	190	
Thr	Asp	Leu	Ile	Lys	Asp	Leu	Asp	Ser	Gln	Thr	Met	Met	Val	Leu	Val	195	200	205	
Asn	Tyr	Ile	Phe	Phe	Lys	Ala	Lys	Trp	Glu	Met	Pro	Phe	Asp	Pro	Gln	210	215	220	
Asp	Thr	His	Gln	Ser	Arg	Phe	Tyr	Leu	Ser	Lys	Lys	Lys	Trp	Val	Met	225	230	235	240
Val	Pro	Met	Met	Ser	Leu	His	His	Leu	Thr	Ile	Pro	Tyr	Phe	Arg	Asp	245	250	255	
Glu	Glu	Leu	Ser	Cys	Thr	Val	Val	Glu	Leu	Lys	Tyr	Thr	Gly	Asn	Ala	260	265	270	
Ser	Ala	Leu	Phe	Ile	Leu	Pro	Asp	Gln	Asp	Lys	Met	Glu	Glu	Val	Glu	275	280	285	
Ala	Met	Leu	Leu	Pro	Glu	Thr	Leu	Lys	Arg	Trp	Arg	Asp	Ser	Leu	Glu	290	295	300	

Phe Arg Glu Ile Gly Glu Leu Tyr Leu Pro Lys Phe Ser Ile Ser Arg  
305 310 315 320

Asp Tyr Asn Leu Asn Asp Ile Leu Leu Gln Leu Gly Ile Glu Glu Ala  
325 330 335

Phe Thr Ser Lys Ala Asp Leu Ser Gly Ile Thr Gly Ala Arg Asn Leu  
340 345 350

Ala Val Ser Gln Val Val His Lys Ala Val Leu Asp Val Phe Glu Glu  
355 360 365

Gly Thr Glu Ala Ser Ala Ala Thr Ala Val Lys Ile Thr Leu Leu Ser  
370 375 380

Ala Leu Val Glu Thr Arg Thr Ile Val Arg Phe Asn Arg Pro Phe Leu  
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Val Thr Asn Pro Lys Gln Ala  
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Asn Ser Ser His Gln Gln Ile Leu Glu Thr Gly Glu Gly Ser Pro Ser  
35 40 45

Leu Lys Ile Ala Pro Ala Asn Ala Asp Phe Ala Phe Arg Phe Tyr Tyr  
50 55 60

Leu Ile Ala Ser Glu Thr Pro Gly Lys Asn Ile Phe Phe Ser Pro Leu  
65 70 75 80

Ser Ile Ser Ala Ala Tyr Ala Met Leu Ser Leu Gly Ala Cys Ser His  
85 90 95

Ser Arg Ser Gln Ile Leu Glu Gly Leu Gly Phe Asn Leu Thr Glu Leu  
100 105 110

Ser Glu Ser Asp Val His Arg Gly Phe Gln His Leu Leu His Thr Leu  
115 120 125

Asn Leu Pro Gly His Gly Leu Glu Thr Arg Val Gly Ser Ala Leu Phe  
130 135 140

Leu Ser His Asn Leu Lys Phe Leu Ala Lys Phe Leu Asn Asp Thr Met  
145 150 155 160

Ala Val Tyr Glu Ala Lys Leu Phe His Thr Asn Phe Tyr Asp Thr Val  
165 170 175

Gly Thr Ile Gln Leu Ile Asn Asp His Val Lys Lys Glu Thr Arg Gly  
180 185 190

Lys Ile Val Asp Leu Val Ser Glu Leu Lys Lys Asp Val Leu Met Val  
195 200 205

Leu Val Asn Tyr Ile Tyr Phe Lys Ala Leu Trp Glu Lys Pro Phe Ile  
210 215 220

Ser Ser Arg Thr Thr Pro Lys Asp Phe Tyr Val Asp Glu Asn Thr Thr  
225 230 235 240

Val Arg Val Pro Met Met Leu Gln Asp Gln Glu His His Trp Tyr Leu  
245 250 255

His Asp Arg Tyr Leu Pro Cys Ser Val Leu Arg Met Asp Tyr Lys Gly  
260 265 270

Asp Ala Thr Val Phe Phe Ile Leu Pro Asn Gln Gly Lys Met Arg Glu  
275 280 285

Ile Glu Glu Val Leu Thr Pro Glu Met Leu Met Arg Trp Asn Asn Leu  
290 295 300

Leu Arg Lys Arg Asn Phe Tyr Lys Lys Leu Glu Leu His Leu Pro Lys  
305 310 315 320

Phe Ser Ile Ser Gly Ser Tyr Val Leu Asp Gln Ile Leu Pro Arg Leu  
325 330 335

Gly Phe Thr Asp Leu Phe Ser Lys Trp Ala Asp Leu Ser Gly Ile Thr  
340 345 350

Lys Gln Gln Lys Leu Glu Ala Ser Lys Ser Phe His Lys Ala Thr Leu  
355 360 365

Asp Val Asp Glu Ala Gly Thr Glu Ala Ala Ala Thr Thr Phe Ala  
370 375 380

Ile Lys Phe Phe Ser Ala Gln Thr Asn Arg His Ile Leu Arg Phe Asn  
385 390 395 400

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35 40 45  
Phe Ala Phe Asn Leu Tyr Arg Arg Phe Thr Val Glu Thr Pro Asp Lys  
50 55 60  
Asn Ile Phe Phe Ser Pro Val Ser Ile Ser Ala Ala Leu Val Met Leu  
65 70 75 80  
Ser Phe Gly Ala Cys Cys Ser Thr Gln Thr Glu Ile Val Glu Thr Leu  
85 90 95  
Gly Phe Asn Leu Thr Asp Thr Pro Met Val Glu Ile Gln His Gly Phe  
100 105 110  
Gln His Leu Ile Cys Ser Leu Asn Phe Pro Lys Lys Glu Leu Glu Leu  
115 120 125  
Gln Ile Gly Asn Ala Leu Phe Ile Gly Lys His Leu Lys Pro Leu Ala  
130 135 140  
Lys Phe Leu Asn Asp Val Lys Thr Leu Tyr Glu Thr Glu Val Phe Ser  
145 150 155 160  
Thr Asp Phe Ser Asn Ile Ser Ala Ala Lys Gln Glu Ile Asn Ser His  
165 170 175  
Val Glu Met Gln Thr Lys Gly Lys Val Val Gly Leu Ile Gln Asp Leu  
180 185 190  
Lys Pro Asn Thr Ile Met Val Leu Val Asn Tyr Ile His Phe Lys Ala  
195 200 205  
Gln Trp Ala Asn Pro Phe Asp Pro Ser Lys Thr Glu Asp Ser Ser Ser  
210 215 220  
Phe Leu Ile Asp Lys Thr Thr Thr Val Gln Val Pro Met Met His Gln  
225 230 235 240  
Met Glu Gln Tyr Tyr His Leu Val Asp Met Glu Leu Asn Cys Thr Val  
245 250 255  
Leu Gln Met Asp Tyr Ser Lys Asn Ala Leu Ala Leu Phe Val Leu Pro  
260 265 270  
Lys Glu Gly Gln Met Glu Ser Val Glu Ala Ala Met Ser Ser Lys Thr

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Val	Pro	Lys	Phe	Ser	Ile	Ser	Ala	Thr	Tyr	Asp	Leu	Gly	Ala	Thr	Leu	
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Leu	Lys	Met	Gly	Ile	Gln	His	Ala	Tyr	Ser	Glu	Asn	Ala	Asp	Phe	Ser	
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Glu	Val	Glu	Leu	Ser	Asp	Gln	Pro	Glu	Asn	Thr	Phe	Leu	His	Pro	Ile	
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Asn	Ile	Phe	Phe	Ser	Pro	Val	Ser	Ile	Ala	Thr	Ala	Phe	Ala	Met	Leu	
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Ser	Leu	Gly	Thr	Lys	Ala	Asp	Thr	His	Asp	Glu	Ile	Leu	Glu	Gly	Leu	
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 Lys Trp Glu Arg Pro Phe Glu Val Lys Asp Thr Glu Glu Glu Asp Phe  
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 Gly Met Phe Asn Ile Gln His Cys Lys Lys Leu Ser Ser Trp Val Leu  
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 Thr Lys Phe Leu Glu Asn Glu Asp Arg Arg Ser Ala Ser Leu His Leu  
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